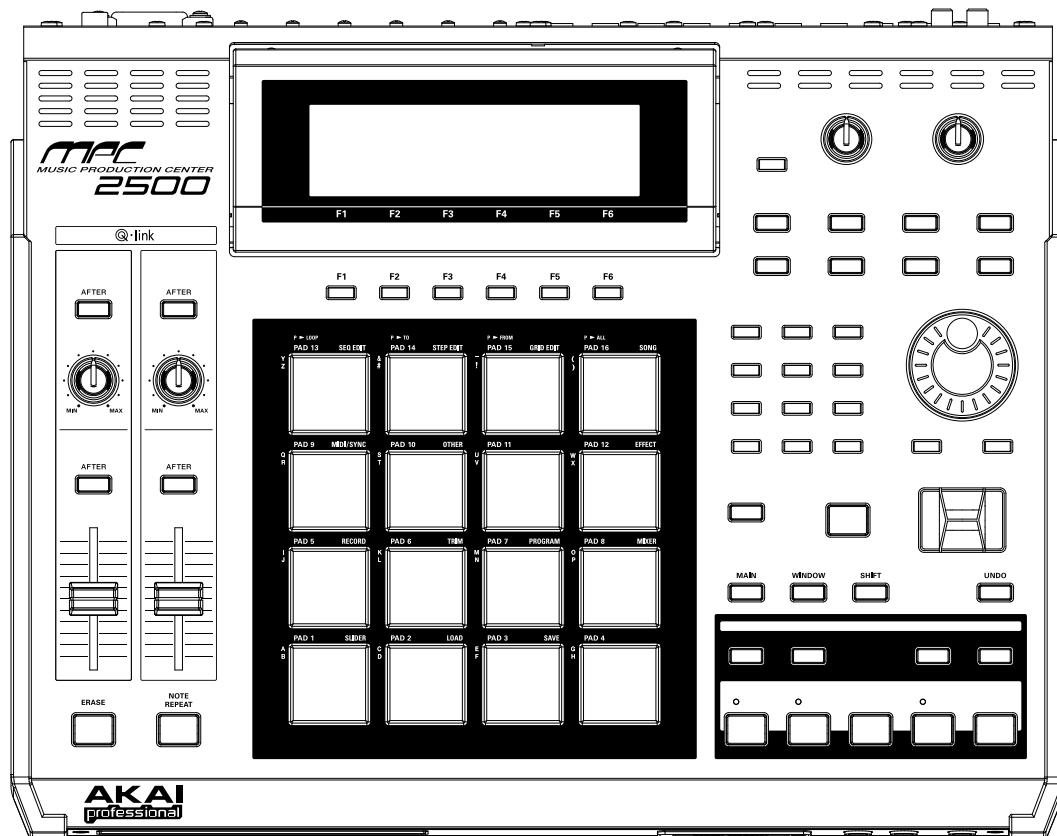

AKAI professional SERVICE MANUAL

MPC
MUSIC PRODUCTION CENTER
2500

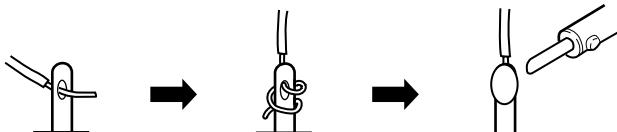


Music production Center

SAFETY INSTRUCTIONS

INFORMATIONS

1. Parts identified by the  symbol are critical for safety.
Replace them only with the parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
These must also be replaced only with the specified replacements.
Examples : Noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially :
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
4. Use specified insulating materials for hazardous live parts.
Note especially :
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers (insulating barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing micro switches
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap the ends of the wires securely around the terminals before soldering.



6. Make sure that wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Make sure that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit. The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resistor of 1500 ohms paralleled with a 0.15 F capacitor, under the unit's normal working conditions.

The leakage-current should be less than 0.5 mA rms AC. The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 M ohms.

SYMBOLS FOR PRIMARY DESTINATION

Unit destinations are indicated with letters as shown below.

Symbols	Principal Destinations
A	U.S.A
B	England
E	Europe
J	Japan
V	Germany
X1	Japan
X4	Universal Area

MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.



Please leave them at an appropriate depot.

PRECAUTIONS FOR LITHIUM BATTERY

The lithium battery may explode when incorrectly replaced.
[OBSERVE THE FOLLOWING WHEN REPLACING]

- Replace with the same make and type or equivalent recommended by manufacturer.
- Place battery in correct polarity.
- Do not short the terminals.
- Do not charge battery.
- Do not dispose of battery in fire.

I. SPECIFICATIONS

General	
Display	240 x 64 dot graphic LCD w/back light
Memory card slot	Compact Flash (The size of the compact flash card the MPC2500 can handle is from 32MB to 2GB)
Dimentions (W x H x D)	415(w) x 93.5(H) x 332.9(D)mm
Weight	6.15kg
Power requirement	21W
Sound generator	
Sampling rate	44.1kHz
Memory capacity	16MB standard (11.5MB for sound memory), expandable to 128MB
Recording time	136sec. (16MB, MONO), 24m28sec. (128MB, MONO)
Memory expansion slot	1 x for optional EXM128
Data format	16-bit linear
Polyphony	32
Dynamic filtering	2 x 2-pole filter per voice
Filter type	Low pass, Band pass, High pass
Preset sound memory	5MB
Number of programs	24
Effects	
Effects	2 stereo effects and Master effect
Effect type	Chorus, Flanger, Bit grunger, 4 band EQ, Compressor, Phase shifter, Tremolo, Flying pan, Reverb, Delay Master effect: 4 band EQ, Compressor
Sequencer	
Maximum events	100,000 notes
Resolution	96 parts per 1/4-note
Sequences	99
Tracks per sequence	64
MIDI output channels	64 (16 channels x 4 outputs)
Song mode	20 songs, 250 steps per song
Drum pad	16 (velocity and pressure sensitive)
Drum pad banks	4
Sync mode	MIDI clock

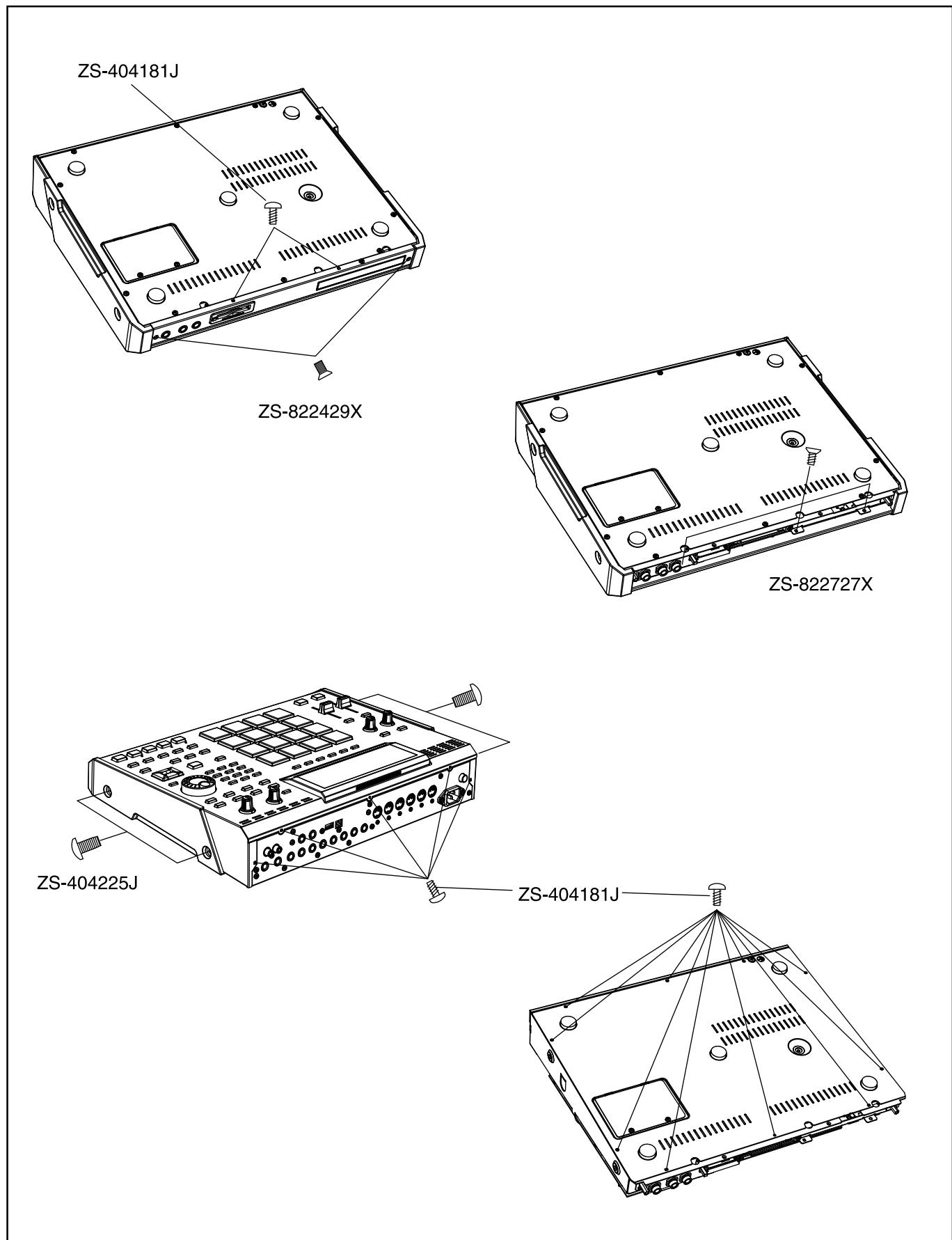
* The specifications are subject to change without the prior notice.

Inputs / Outputs	
Record input (L and R)	1/4-inch stereo phone x 2, balanced -40dBu, input impedance 11k ohms; Max. Input level +10dBu
Digital input	RCA-pin x 1 S/PDIF
Stereo output (L and R)	1/4-inch phone x 2 unbalanced +11dBu, output impedance 1k Ohms, Max. output level +22dBu
8 individual outputs	1/4-inch phone x 8 unbalanced +11dBu, output impedance 1k Ohms, Max. output level +22dBu
Phones output	1/4-inch stereo phone x 1, 200mW / 100 ohms
Digital output	RCA-pin x 1 S/PDIF
MIDI inputs	5-pin DIN x 2
MIDI outputs	5-pin DIN x 4
USB	Slave connector x 1, USB MASS STORAGE CLASS support. (You need Windows 2000/Me/XP or later version, or MacOS 9.x/10.x or later version.)
Footswitches	1/4-inch phone x 2
Standard accessories	
Standard accessories	32MB Compact Flash card, Power cable, Operator's manual
Options	
EXM128	128MB expansion memory card
CD-M25	Internal CD drive

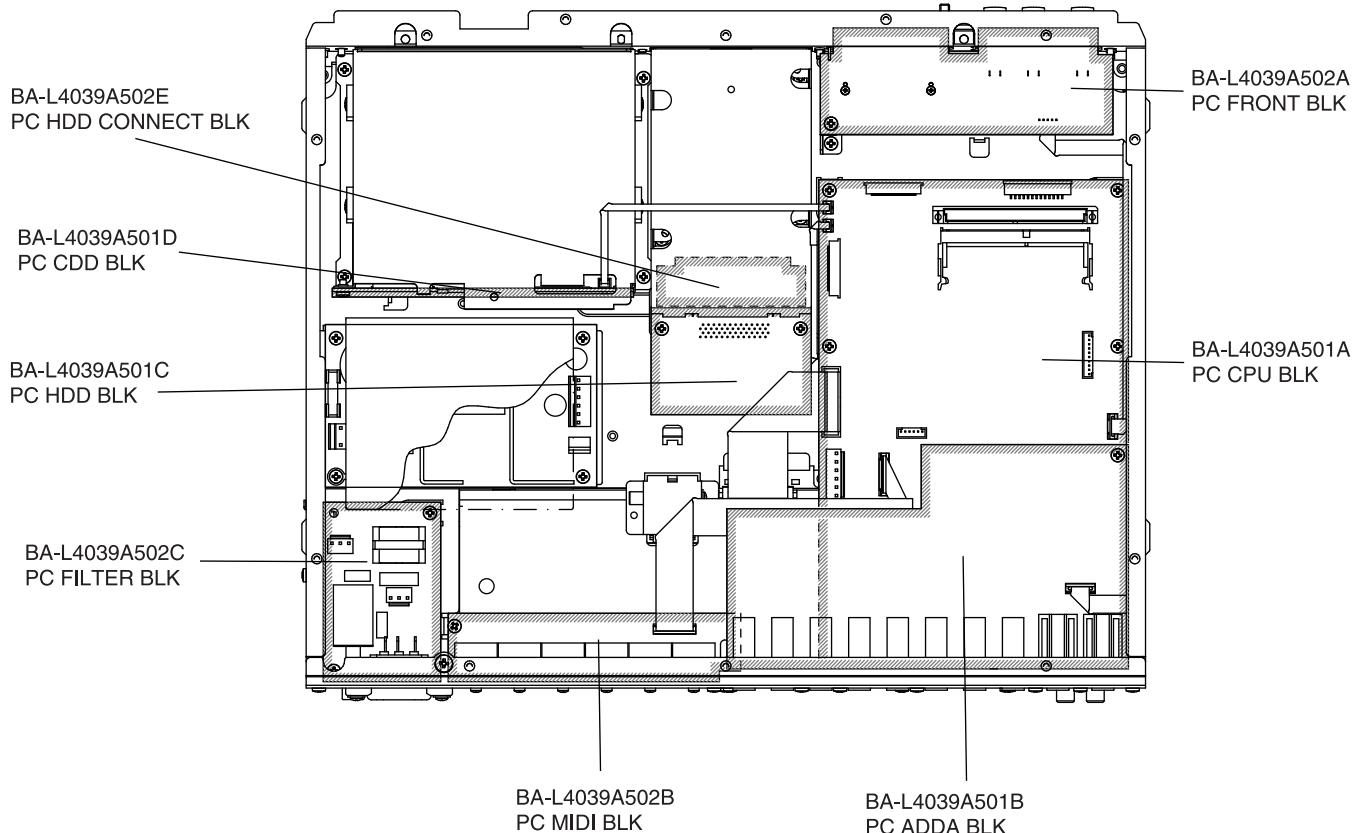
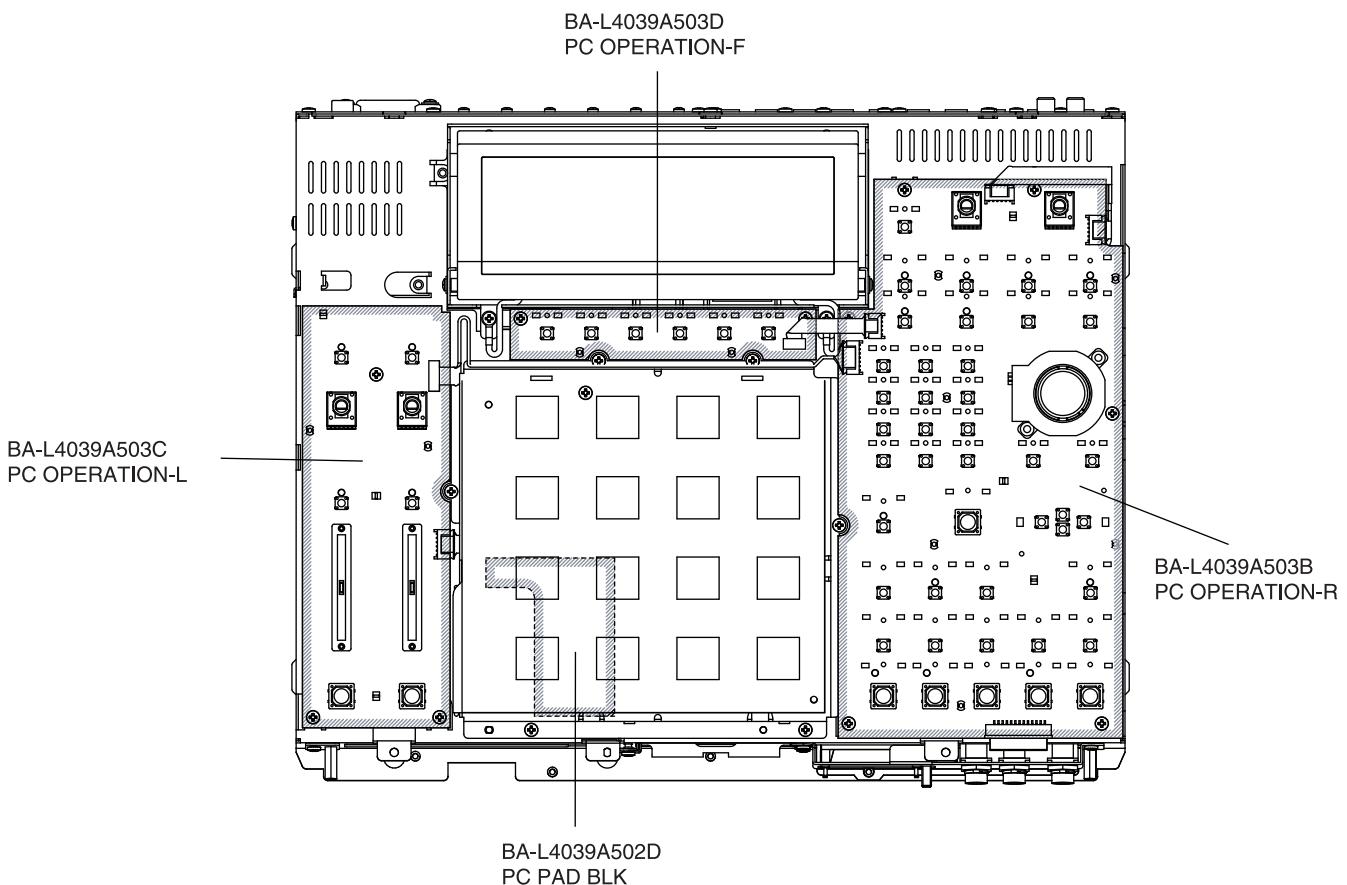
* The specifications are subject to change without the prior notice.

II. DISASSEMBLY

In case of trouble, etc., necessitating dismantling, please dismantle in the order shown in the illustrations. Reassemble in the reverse order.



III. PRINCIPAL PARTS LOCATION



IV. SUPPLEMENTARY INFORMATION

[Update procedure]

====How to copy the OS binary file to a CF card using a MPC2500 and a computer=====

Below procedure will utilize the MPC2500 as a Compact flash writer.

Required Equipment:

Compact Flash (CF), Computer with USB mass storage class support (Windows XP/ME/2000 or Mac OSX, OS9.x)

1. Copy/Download the OS data to a computer's hard disc drive and extract it's data.
2. Insert a Compact Flash card into the MPC2500.
3. Turn on the power of the MPC2500.
4. Go to Load mode, then press USB (F4).
5. Connect a USB cable between the computer and the MPC2500. (Display will change from "Status=Not Connected" to "Status=Connected")
6. The CF in the MPC2500 will be mounted as a drive on the computer.
7. Copy the OS binary file to the CF in the MPC2500.
8. Disconnect the USB cable. (MPC2500 will not accept any user input while a USB cable is connected)

Note: The OS data can also be copied to a Compact Flash card using any other Compact Flash card reader/writer. In this case it is not necessary to connect the MPC2500 to a computer.

=====How to update the MPC2500=====

MPC2500 is updated using a Compact Flash card containing OS data.

1. Insert a CF containing OS data into the MPC2500.
2. Turn on the power of the MPC2500 while pressing down the "Window" button.
3. =====MPC2500 OS UPDATE===== File: M25V100B.BIN (version information) will be displayed on the LCD screen.
4. To start the update process, press the "F6 (DO IT)" button. After the update process is finished the MPC2500 will re-boot automatically.

Note: The MPC2500 can't be updated from a computer via USB directly – updating is only possible using a CF card.

[Test program]

Test programs on the MPC2500 can be run either using a Test OS or a JIG PC Flash Rom.

[Running the test Program using a Test OS]

A test program can be installed on the MPC2500 by updating it with a Test OS. The Test OS must be copied to a CF card from which it will be written to the Flash ROM of the MPC2500. The installation procedure is the same as for a normal OS update. For a description of the test mode functions, refer to the “MPC2500 Test Program list”.

Note: Once the Test OS is installed, the unit will always start up using the Test OS, until the regular OS is re-installed.

[Running the test Program using a JIG PC Flash ROM MPC2.5K (AJ-771314J)]

The PC Flash ROM is used during repair for the testing jig and boot block recovery.

To access the test program on the PC Flash ROM MPC2.5K follow this procedure:

1. Turn off the MPC2500 and open the unit.
2. Insert the PC Flash MPC2.5K ROM into J110 on the CPU board.
3. Turn on the MPC2500 to start up the Test OS from the PC Flash ROM.

[Hidden modes]

The MPC2500 has the following hidden modes, which can be accessed by certain input sequences or holding down a key while powering on the unit.

[Owner Name]

Mode > Other > F3/FOOTSW > F6 > Enter owner name

In the startup screen, “Owner Name” will be displayed.

[Initialize parameter]

Hold down the ERASE button while powering on the unit.

[Demo mode]

Hold down the Bank “D” button while powering on the unit.

In this mode “Internal memory” on the Save page can not be selected. In the startup screen “Demo” will be displayed instead of “MPC2500”. Once demo mode has been activated it will remain active even if power is turned off and on again. To turn off the Demo mode, hold down the Bank “D” button while powering on the unit.

MPC2500 Test Program

KEY TEST					
Q-LINK AND JOG TEST					
PAD TEST		F1	VELO/PEEK		
		F5	RESET		
		F6	EXIT		
LCD TEST		F6	EXIT		
LED TEST		F6	EXIT		
SDRAM TEST		F1	SIMPL		
		F2	FULL		
		F3	---		
		F4	---		
		F5	---		
		F6	EXIT		
CF CARD TEST		F1	SIMPL		
		F2	DETEC		
		F3			
		F4	BACUP		
		F5	ERASE		
		F6	EXIT		
HDD TEST		F1	SIMPL		
		F2	DETEC		
		F3			
		F4	BACUP		
		F5	ERASE		
		F6	EXIT		
CDD TEST		F1	SIMPL		
		F2	DETEC		
		F6	EXIT		
FLASH WRITING		F1	P-OS		
		F2	USB		
		F3	LIBC		
		F4	LIBH		
		F6	EXIT		
A/D selected					
SPDIF selected					
TEST TONE					
MIDI OUTA > MIDI IN 1 -- OK (Connect MIDI cable OUT to IN, Each connection result displayed)					
F.SW1 : ON F.SW2 : OFF (Foot SW status displayed)					

	F1	KEY
	F2	JOG
PANEL TEST	F3	PAD
	F4	LCD
	F5	LED
	F6	EXIT
	F1	SDRAM
MEMORY TEST	F2	CF
	F3	HDD
AUDIO TEST	F4	CDD
	F5	
	F6	EXIT
	F1	A/D
MIDI TEST	F2	SPDIF
	F3	TONE
	F4	---
	F5	---
	F6	EXIT
FOOT SW TEST	F1	START
	F2	---
	F3	---
	F4	---
	F5	---
	F6	EXIT
	F1	---
	F2	---
	F3	---
	F4	---
	F5	---
	F6	EXIT

	F1	PANEL					
	F2	MEMORY					
			Starting Display				
	F3	AUDIO					
	F4	MIDI					
	F5	F.SW					
	F6	---					

V. PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list the Part No., Model No. and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List or Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs.
2. Parts not shown in the Parts List will not in principle be supplied.
3. How to read the Parts List.

1. PC MAIN BOARD BLK

Ref. No.	Part No.	Description
D5	ED-431276C	D SCHOT 1S30-J T05
D110	ED-431276C	D SCHOT 1S30-J T05
:		
IC5	EI-811073J	ICTRC-6593
IC10	EI-811068J	IC HD74HC157FP

Service parts classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

2. FINAL ASSEMBLY BLK

Ref. No.	Part No.	Description
1.	SA-349332	FOOT
2.	ZS-344754C	ST PAN30x06STL CMT
:	:	:
44.	SP-417333J	COVER TOP
45.	ZS-418385J	BT BID30X06STL BNI EATRH LOCK
46-A	△ EW-380905J	AC CORD 250S KP300 KS16A H B J [J]
46-B	△ EW-368420J1	AC CORD 200SKP30KS B AC [A]
46-C	△ EW-410608J	AC CORD 250 KP4819D KS31A B E [E,V]

Symbols for primary destination
[A] U.S.A. [J] Japan
[B] England [V] Germany
[E] Europe [x1] Japan
[X4] Universal Area

Safety critical component

This number corresponds with the individual parts index number in the figure.

WARNING

INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT

IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

1. PC BOARD BLK

Ref. No.	Part No.	Description
1	BA - L4039A020A	PC(#)MAIN BLK MPC2500
2	BA - L4039A030A	PC(#)MULTI BLK MPC2500
3	BA - L4039A040A	PC(#)OPERATION BLK MPC2500
PC(#)MAIN BLK CONSISTS OF FOLLOWING P.C. BOARDS		
1	BA - L4039A501A	PC CPU BLK
2	BA - L4039A501B	PC ADDA BLK
3	BA - L4039A501C	PC HDD BLK
4	BA - L4039A501D	PC CDD BLK
PC(#)MULTI BLK CONSISTS OF FOLLOWING P.C. BOARDS		
1	BA - L4039A502A	PC FRONT BLK
2	BA - L4039A502B	PC MIDI BLK
3	BA - L4039A502C	PC FILTER BLK
4	BA - L4039A502D	PC PAD BLK
5	BA - L4039A502E	PC HDD CONNECT BLK
PC(#)OPERATION BLK CONSISTS OF FOLLOWING P.C. BOARDS		
1	BA - L4039A503B	PC OPERATION-R
2	BA - L4039A503C	PC OPERATION-L
3	BA - L4039A503D	PC OPERATION-F

2. PC CPU BLK

Ref. No.	Part No.	Description
D901	ED - 821790X	D SCHOT. RK44 40/3.0A
D902	ED - 821790X	D SCHOT. RK44 40/3.0A
IC901	EI - 821826X	IC LM2575S-ADJ
IC902	EI - 821826X	IC LM2575S-ADJ
J1	EJ - 821236X	SOCKET CONNECTER YKF45-0020 4P USB
J2	EJ - 822660X	PIN J YKC21-4141N P2P RCA Pin
J5	EJ - 821000X	PHONE J YKB26-5264 S.NUT 6.3 Stereo Out
J6	EJ - 821000X	PHONE J YKB26-5264 S.NUT 6.3 Stereo Out
J102	EJ - 822395X	SOCKET 26FMZ-ST 26P
J110	EJ - 419246J	SOCKET 128A-050S2A-S14A 50P
L901	EO - 821758X	COIL FIX 1 PE-52627
L902	EO - 821758X	COIL FIX 1 PE-52627
L903	EO - 822347X	COIL FIX 1 SL0912UW55 220K
L904	EO - 822347X	COIL FIX 1 SL0912UW55 220K
L905	EO - 822347X	COIL FIX 1 SL0912UW55 220K
P101	EJ - 810880J	PLUG 128A-032P2C-S14A 32P
P105	EJ - 822394X	PLUG SCP24GS3 24P
R913	△ ER - 822729X	R FUSE H F10 RF 1/4W 6R8J
R914	△ ER - 822729X	R FUSE H F10 RF 1/4W 6R8J
R915	ER - 822646X	R CB H T26 CF 1/6W 751J
D1	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D2	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D3	ED - 812338J	D ZENER C.UDZ4.7BTE-17 T08E
D4	ED - 812338J	D ZENER C.UDZ4.7BTE-17 T08E
D5	ED - 812338J	D ZENER C.UDZ4.7BTE-17 T08E
D6	ED - 812338J	D ZENER C.UDZ4.7BTE-17 T08E
D7	ED - 812338J	D ZENER C.UDZ4.7BTE-17 T08E
D8	ED - 812338J	D ZENER C.UDZ4.7BTE-17 T08E
D903	ED - 812354J	D ZENER C.RB081L-20 TE25T12E
D904	ED - 812338J	D ZENER C.UDZ4.7BTE-17 T08E
IB1	ER - 822707X	COMP R C.CRA03 330J T08
IB2	ER - 822707X	COMP R C.CRA03 330J T08
IB3	ER - 822707X	COMP R C.CRA03 330J T08
IB4	ER - 822707X	COMP R C.CRA03 330J T08
IB5	ER - 822707X	COMP R C.CRA03 330J T08
IB6	ER - 822707X	COMP R C.CRA03 330J T08
IB7	ER - 822707X	COMP R C.CRA03 330J T08
IB8	ER - 822707X	COMP R C.CRA03 330J T08
IC1	EI - 822387X	IC HD641772F160C QFTY
IC2	EI - 822384X	IC AM29LV6416DL90REI
IC3	EI - 821834X	IC HY57V641620HGT-H
IC4	EI - 821834X	IC HY57V641620HGT-H
IC5	EI - 812979J	IC HD74LVC245ATELL FPELT16E
IC6	EI - 812979J	IC HD74LVC245ATELL FPELT16E
IC7	EI - 812979J	IC HD74LVC245ATELL FPELT16E
IC8	EI - 812979J	IC HD74LVC245ATELL FPELT16E
IC9	EI - 812979J	IC HD74LVC245ATELL FPELT16E
IC10	EI - 812979J	IC HD74LVC245ATELL FPELT16E
IC11	EI - 820795X	IC HD74LVC14TELL FPELT12E
IC12	EI - 822382X	IC 74HCT541D
IC13	EI - 822389X	IC SN74LVCC3245ADWR
IC14	EI - 821827X	IC NJU7002M FPT1T08
IC15	EI - 821836X	IC SI9706DY
IC16	EI - 821831X	IC DS1811R-10
IC17	EI - 822385X	IC CD74AC153M96
IC19	EI - 822381X	IC LM431ACM3
IC20	EI - 822390X	IC XC2S15-5VQ100C
IC21	EI - 821406X	IC AIC117CE FP T16E

IC101	EI - 812479J	IC NJM5532M FPT1T32P
IC102	EI - 812479J	IC NJM5532M FPT1T32P
IC103	EI - 812479J	IC NJM5532M FPT1T32P
IC104	EI - 822388X	IC PCM1793DBR
J3	EJ - 821781X	SOCKET DMM3-RS144A2B-13 144P
J103	EJ - 822373X	SOCKET BL112-42RL 42P
J104	EJ - 822373X	SOCKET BL112-42RL 42P
PH1	ET - 821874X	DETECTOR HCPL-0701
PH2	ET - 821874X	DETECTOR HCPL-0701
SF1	△ EF - 810572J	FUSE C.ICP-S2.3 50V 2.3A T08E
SF2	△ EF - 810572J	FUSE C.ICP-S2.3 50V 2.3A T08E
TR1	ET - 821788X	TR FET CHIP 2SK3065T100 T12E
TR2	ET - 821788X	TR FET CHIP 2SK3065T100 T12E
TR3	ET - 821788X	TR FET CHIP 2SK3065T100 T12E
TR4	ET - 821788X	TR FET CHIP 2SK3065T100 T12E
TR5	ET - 821788X	TR FET CHIP 2SK3065T100 T12E
TR6	ET - 821789X	TR CHIP DTB113ZKT146 T08E
TR7	ET - 821789X	TR CHIP DTB113ZKT146 T08E
TR8	ET - 821789X	TR CHIP DTB113ZKT146 T08E
TR9	ET - 821789X	TR CHIP DTB113ZKT146 T08E
TR10	ET - 821789X	TR CHIP DTB113ZKT146 T08E
TR101	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR102	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR103	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR104	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR105	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR106	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR901	ET - 428249J	TR.C2SC2412K R,S T146T08E
TR902	ET - 429898J	TR.C.DTA114EKA T146T08E
TR903	ET - 430868J	TR.C.DTC114EKA T146T08E
TR904	ET - 428249J	TR.C.2SC2412K R,S T146T08E
TR905	ET - 428248J	TR.C.2SA1037AK R,S T146T08E
X1	EI - 822642X	OSC X'TAL C.FCO736B 13.330MHZ
X2	EI - 822643X	OSC X'TAL C.FCO736B 48.0000MHZ
3. PC ADDA BLK		
Ref. No.	Part No.	Description
J101	EI - 810886J	SOCKET 128A-032S2A-S14A 32P
J201	EI - 821273X	PHONE J YKB26-5326 S.NUT 6.3 Rec in
J202	EI - 821273X	PHONE J YKB26-5326 S.NUT 6.3 Rec in
J301	EI - 821000X	PHONE J YKB26-5264 S.NUT 6.3 Para out
J302	EI - 821000X	PHONE J YKB26-5264 S.NUT 6.3 Para out
J303	EI - 821000X	PHONE J YKB26-5264 S.NUT 6.3 Para out
J304	EI - 821000X	PHONE J YKB26-5264 S.NUT 6.3 Para out
J305	EI - 821000X	PHONE J YKB26-5264 S.NUT 6.3 Para out
J306	EI - 821000X	PHONE J YKB26-5264 S.NUT 6.3 Para out
J307	EI - 821000X	PHONE J YKB26-5264 S.NUT 6.3 Para out
J308	EI - 821000X	PHONE J YKB26-5264 S.NUT 6.3 Para out
IC201	EI - 812479J	IC NJM5532M FPT1T32P
IC202	EI - 812479J	IC NJM5532M FPT1T32P
IC203	EI - 812479J	IC NJM5532M FPT1T32P
IC204	EI - 812479J	IC NJM5532M FPT1T32P
IC301	EI - 812479J	IC NJM5532M FPT1T32P
IC302	EI - 812479J	IC NJM5532M FPT1T32P
IC303	EI - 812479J	IC NJM5532M FPT1T32P
IC304	EI - 812479J	IC NJM5532M FPT1T32P
IC305	EI - 812479J	IC NJM5532M FPT1T32P
IC306	EI - 812479J	IC NJM5532M FPT1T32P
IC307	EI - 812479J	IC NJM5532M FPT1T32P
IC308	EI - 812479J	IC NJM5532M FPT1T32P
IC401	EI - 812479J	IC NJM5532M FPT1T32P
IC402	EI - 812479J	IC NJM5532M FPT1T32P
IC403	EI - 812479J	IC NJM5532M FPT1T32P
IC404	EI - 812479J	IC NJM5532M FPT1T32P
IC601	EI - 822212X	IC AD1837AS QFTY
IC602	EI - 821830X	IC CS8427-CS FP
IC603	EI - 822731X	IC 74HCU04DT FPELT16E
T1	BT - 810651J	TRANS PULSE CIT0705S-35101TFP
TR501	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR502	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR503	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR504	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR505	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR506	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR507	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR508	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR509	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR510	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR511	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR512	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR513	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR514	ET - 810831J	TR.CHIP 2SC3326 A,B TE85LT08E

TR515	ET -	810831J	TR.CHIP 2SC3326 A,B TE85LT08E
TR516	ET -	810831J	TR.CHIP 2SC3326 A,B TE85LT08E
X601	EI -	822641X	OSC X'TAL C.FCO736B 11.2896MHZ

4. PC HDD BLK

Ref. No.	Part No.	Description
P812	EJ - 821777X	PLUG DHB-PA50-R131N 50P
J104	EJ - 822373X	SOCKET BL112-42RL 42P
J108	EJ - 822373X	SOCKET BL112-42RL 42P

5. PC CDD BLK

Ref. No.	Part No.	Description
J108	EJ - 822373X	SOCKET BL112-42RL 42P
P813	EJ - 822376X	SOCKET KX14-50K5D 50P

6. PC FRONT BLK

Ref. No.	Part No.	Description
IC801	EI - 812705J	IC NJM4556AL
J801	EJ - 821386X	PHONE J YKB22-5264 NUT 6.3
J802	EJ - 821386X	PHONE J YKB22-5264 NUT 6.3
J803	EJ - 821386X	PHONE J YKB22-5264 NUT 6.3
R807	△ ER - 822728X	R OMF H F12 FS MOF 1W 101J
R808	△ ER - 822728X	R OMF H F12 FS MOF 1W 101J
J103	EJ - 822373X	SOCKET BL112-42RL 42P
J804	EJ - 822374X	SOCKET CFHD-19-0034 50P

7. PC MIDI BLK

Ref. No.	Part No.	Description
J805	EJ - 427801J	DIN J TCS5084-45-4151 5P
J806	EJ - 427801J	DIN J TCS5084-45-4151 5P
J807	EJ - 427801J	DIN J TCS5084-45-4151 5P
J808	EJ - 427801J	DIN J TCS5084-45-4151 5P
J809	EJ - 427801J	DIN J TCS5084-45-4151 5P
J810	EJ - 427801J	DIN J TCS5084-45-4151 5P

8. PC FILTER BLK

Ref. No.	Part No.	Description
L951	△ EO - 822706X	COIL LF ET24-562U-EH4
SW901	△ ES - 812750J	SW PUSH SDKEC 02-1 Power SW

9. PC PAD BLK

Ref. No.	Part No.	Description
J811	EJ - 821080X	SOCKET 5229-20APB 20P
D850	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D851	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D852	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D853	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D854	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D855	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D856	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D857	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D858	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D859	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D860	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D861	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D862	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D863	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D864	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D865	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D866	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D867	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D868	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D869	ED - 428998J	D SILICON C.1SS355TE-17 T08E
D870	ED - 822380X	D SCHOT. C. RB751V-40 T08E
D871	ED - 822380X	D SCHOT. C. RB751V-40 T08E
D872	ED - 822380X	D SCHOT. C. RB751V-40 T08E
D873	ED - 822380X	D SCHOT. C. RB751V-40 T08E
IC850	EI - 820659X	IC NJM2082M FPTE1T16E
IC851	EI - 820659X	IC NJM2082M FPTE1T16E
IC852	EI - 822386X	IC CD74HCT04M96
IC853	EI - 821829X	IC CD74HCT4051M96

10. PC HDD CONNECT BLK

Ref. No.	Part No.	Description
J812	EJ - 821780X	SOCKET DHB-RA50-R131N 50P
J814	EJ - 822375X	SOCKET PTRZ-50R1-B-R1 50P

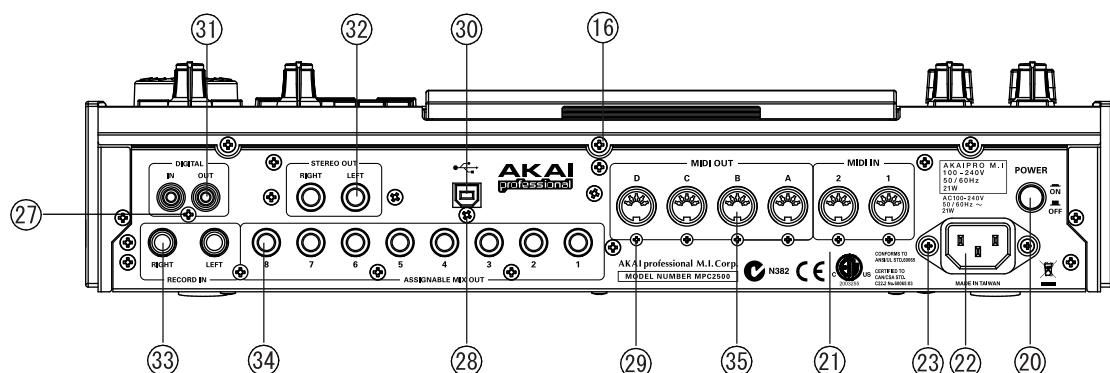
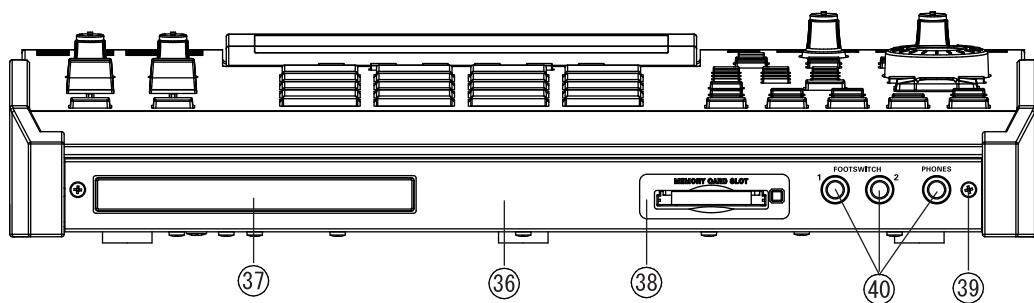
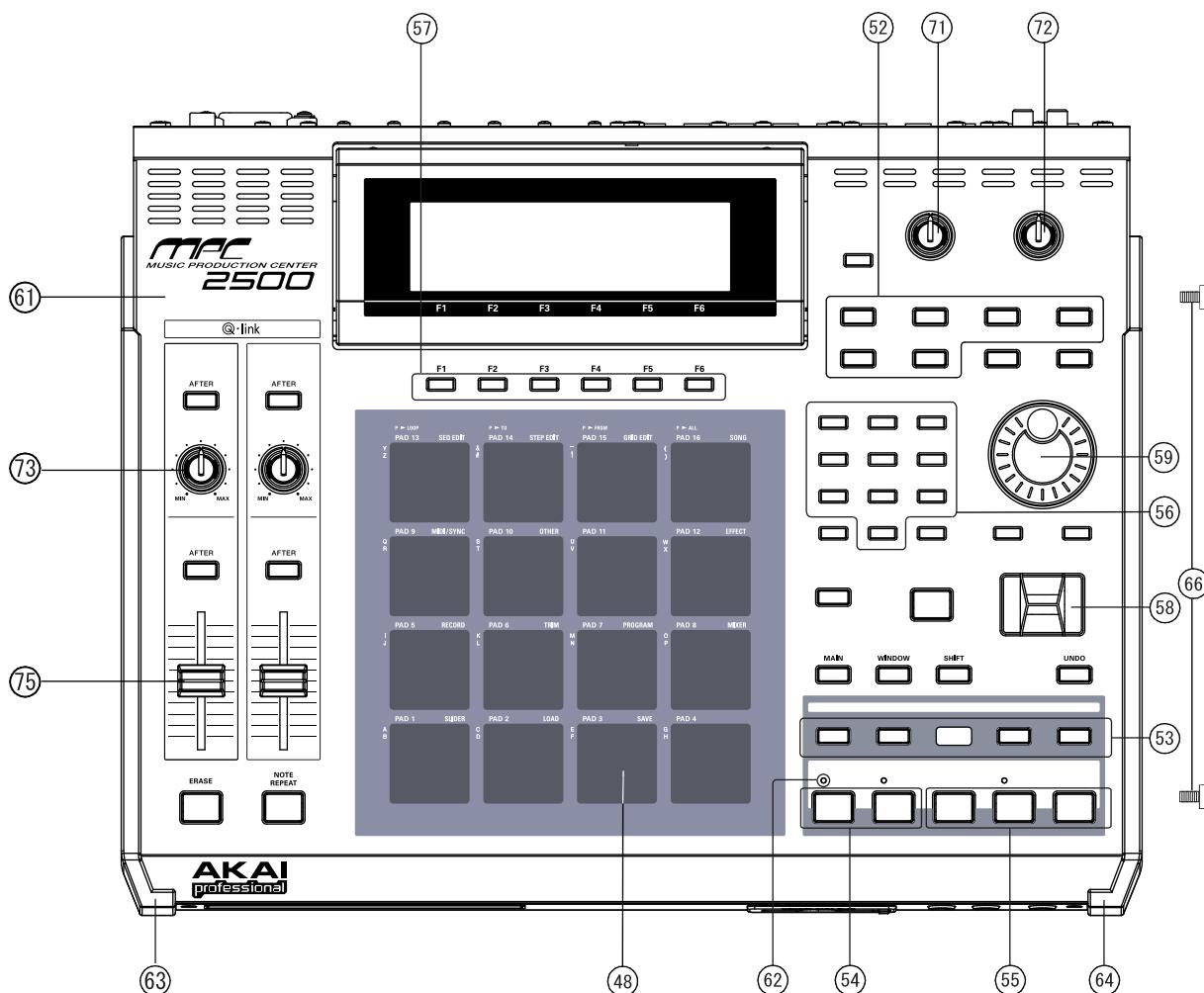
11. PC OPERATION-R BLK

Ref. No.	Part No.	Description
D756	ED - 812087J	D LED L-934SRD-G RED
D757	ED - 812087J	D LED L-934SRD-G RED
D758	ED - 812086J	D LED L-934SGD GREEN

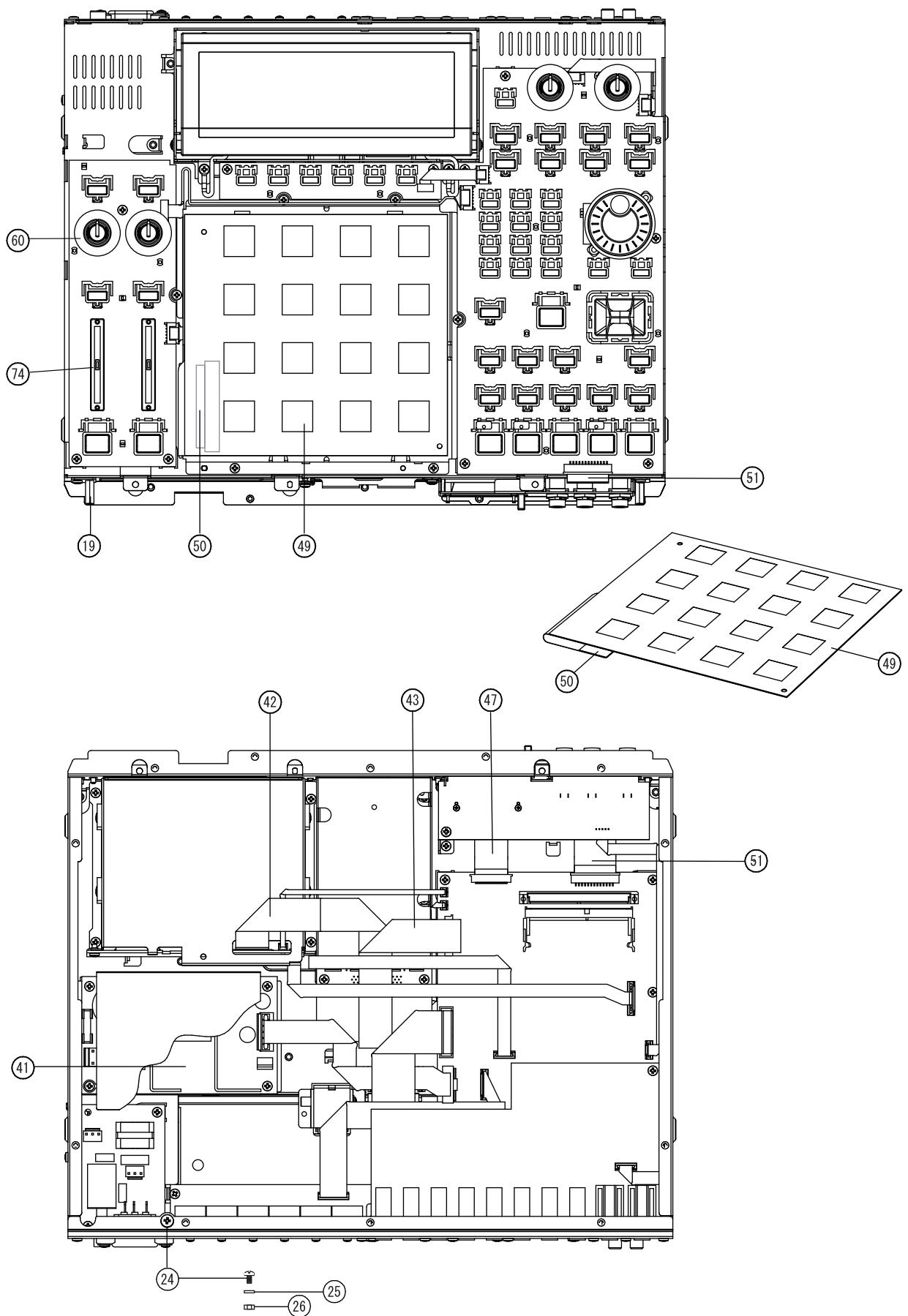
D759	ED - 822378X	D LED L-169XQWC-C WHITE
D760	ED - 822379X	D LED L-169XSURDK RED
D761	ED - 822379X	D LED L-169XSURDK RED
D762	ED - 822379X	D LED L-169XSURDK RED
D763	ED - 822379X	D LED L-169XSURDK RED
D764	ED - 822379X	D LED L-169XSURDK RED
D765	ED - 822379X	D LED L-169XSURDK RED
D766	ED - 822379X	D LED L-169XSURDK RED
D767	ED - 822379X	D LED L-169XSURDK RED
J102	EJ - 822395X	SOCKET 26FMZ-ST 26P
SW701	ES - 415015J	SW TACT SKQEA
SW702	ES - 415015J	SW TACT SKQEA
SW703	ES - 415015J	SW TACT SKQEA
SW704	ES - 415015J	SW TACT SKQEA
SW705	ES - 415015J	SW TACT SKQEA
SW706	ES - 349474	SW TACT SKHHAM004A
SW707	ES - 349474	SW TACT SKHHAM004A
SW708	ES - 349474	SW TACT SKHHAM004A
SW709	ES - 349474	SW TACT SKHHAM004A
SW710	ES - 349474	SW TACT SKHHAM004A
SW711	ES - 349474	SW TACT SKHHAM004A
SW712	ES - 349474	SW TACT SKHHAM004A
SW713	ES - 349474	SW TACT SKHHAM004A
SW714	ES - 349474	SW TACT SKHHAM004A
SW715	ES - 349474	SW TACT SKHHAM004A
SW716	ES - 349474	SW TACT SKHHAM004A
SW717	ES - 415015J	SW TACT SKQEA
SW718	ES - 349474	SW TACT SKHHAM004A
SW719	ES - 349474	SW TACT SKHHAM004A
SW720	ES - 349474	SW TACT SKHHAM004A
SW721	ES - 349474	SW TACT SKHHAM004A
SW722	ES - 349474	SW TACT SKHHAM004A
SW723	ES - 349474	SW TACT SKHHAM004A
SW724	ES - 349474	SW TACT SKHHAM004A
SW725	ES - 349474	SW TACT SKHHAM004A
SW726	ES - 349474	SW TACT SKHHAM004A
SW727	ES - 349474	SW TACT SKHHAM004A
SW728	ES - 349474	SW TACT SKHHAM004A
SW729	ES - 349474	SW TACT SKHHAM004A
SW730	ES - 349474	SW TACT SKHHAM004A
SW731	ES - 349474	SW TACT SKHHAM004A
SW732	ES - 349474	SW TACT SKHHAM004A
SW733	ES - 349474	SW TACT SKHHAM004A
SW734	ES - 349474	SW TACT SKHHAM004A
SW735	ES - 349474	SW TACT SKHHAM004A
SW736	ES - 349474	SW TACT SKHHAM004A
SW737	ES - 349474	SW TACT SKHHAM004A
SW738	ES - 349474	SW TACT SKHHAM004A
SW739	ES - 349474	SW TACT SKHHAM004A
SW740	ES - 349474	SW TACT SKHHAM004A
SW741	ES - 349474	SW TACT SKHHAM004A
SW742	ES - 349474	SW TACT SKHHAM004A
SW743	ES - 349474	SW TACT SKHHAM004A
SW756	ES - 822352X	SW R.ENCORDER SRGPSJ0500
VR701	EV - 822422X	VR ROTARY RD14K12D L20 C203X2
VR702	EV - 822377X	VR ROTARY RD14K12D L20 3B103X2
D701	ED - 811455J	D SILICON H 1SS133T-77 T26
D702	ED - 811455J	D SILICON H 1SS133T-77 T26
D703	ED - 811455J	D SILICON H 1SS133T-77 T26
D704	ED - 811455J	D SILICON H 1SS133T-77 T26
D705	ED - 811455J	D SILICON H 1SS133T-77 T26
D706	ED - 811455J	D SILICON H 1SS133T-77 T26
D707	ED - 811455J	D SILICON H 1SS133T-77 T26
D708	ED - 811455J	D SILICON H 1SS133T-77 T26
D709	ED - 811455J	D SILICON H 1SS133T-77 T26
D710	ED - 811455J	D SILICON H 1SS133T-77 T26
D711	ED - 811455J	D SILICON H 1SS133T-77 T26
D712	ED - 811455J	D SILICON H 1SS133T-77 T26
D713	ED - 811455J	D SILICON H 1SS133T-77 T26
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D725	ED - 811455J	D SILICON H 1SS133T-77 T26
D726	ED - 811455J	D SILICON H 1SS133T-77 T26

D727	ED - 811455J	D SILICON H 1SS133T-77 T26	21	SP - 822294X	PANEL REAR MPC2500
D728	ED - 811455J	D SILICON H 1SS133T-77 T26	22	EJ - 358632J2	SOCKET INLET SOT-16 3P
D729	ED - 811455J	D SILICON H 1SS133T-77 T26	23	ZS - 820481X	BT PAN30X08STL BZN C080
D730	ED - 811455J	D SILICON H 1SS133T-77 T26	24	ZS - 822425X	BID40X10STL BZN
D731	ED - 811455J	D SILICON H 1SS133T-77 T26	25	ZS - 822662X	TWB40
D732	ED - 811455J	D SILICON H 1SS133T-77 T26	26	ZS - 413267	N FRANGE 40STL CMT
D733	ED - 811455J	D SILICON H 1SS133T-77 T26	27	ZS - 394414J	BT BID30X08STL BZN
D734	ED - 811455J	D SILICON H 1SS133T-77 T26	28	ZS - 822426X	BID30X08STL BZN
D735	ED - 811455J	D SILICON H 1SS133T-77 T26	29	ZS - 822427X	PAN26X06STL BZN
D736	ED - 811455J	D SILICON H 1SS133T-77 T26	30	EJ - 821236X	SOCKET CONNECTER YKF45-0020 4P USB
D737	ED - 811455J	D SILICON H 1SS133T-77 T26	31	EJ - 822660X	PIN J YKC21-4141N P2P RCA Pin
D738	ED - 811455J	D SILICON H 1SS133T-77 T26	32	EJ - 821000X	PHONE J YKB26-5264 S.NUT 6.3 Stereo Out
D739	ED - 811455J	D SILICON H 1SS133T-77 T26	33	EJ - 821273X	PHONE J YKB26-5326 S.NUT 6.3 Rec In
D740	ED - 811455J	D SILICON H 1SS133T-77 T26	34	EJ - 821000X	PHONE J YKB26-5264 S.NUT 6.3 8 para
D741	ED - 811455J	D SILICON H 1SS133T-77 T26	35	EJ - 427801J	DIN J TCS5084-45-4151 5P MIDI
D742	ED - 811455J	D SILICON H 1SS133T-77 T26	36	SP - 822293X	COVER FRONT
D743	ED - 811455J	D SILICON H 1SS133T-77 T26	37	SP - 822300X	COVER CD BLANK
	MH - 322581X	PC SUPPORT MCBS-5P	38	SP - 822334X	PANEL SLOT (B)
			39	ZS - 822429X	CTS30X06STL BZN
			40	EJ - 821386X	PHONE J YKB22-5264 NUT 6.3
			41	△ BP - 822391X	SW POW SNP-9541-M1
			42	EW - 822369X	CORD FFC P0.50 L220 42P
			43	EW - 822368X	CORD FFC P0.50 L170 42P
			44	ZS - 822428X	N20STL NI3 2
			45	ZS - 356861	PAN20X06STL NI3
			46	EJ - 822406X	SOCKET ACCE EJECT CFHP-00-0023
			47	EW - 822367X	CORD FFC P0.50 L60 42P
			48	SE - 822401X	PAD TW-LG
			49	BA - 379695J1	PC PAD SENSOR
			50	SE - 821143X	SHEET FFC
			51	EW - 822370X	CORD FFC P1.00 L100 26P
			52	SB - 822298X	BUTTON PUSH M (A) Clear
			53	SB - 822299X	BUTTON PUSH M (B) White
			54	SB - 822333X	BUTTON PUSH B (7) Red
			55	SB - 821897X	BUTTON PUSH B (6) White
			56	SB - 822331X	BUTTON PUSH (B)-8 Gray
			57	SB - 822330X	BUTTON PUSH (B)-7 White
			58	SB - 822307X	BUTTON CURSOR (5) Gray
			59	SK - 822297X	SW TACT SKHHAM004A
			60	ES - 822352X	KNOB JOG
			61	SE - 822579X	SW R.ENCORDER SRGPSJ0500
			62	SP - 822288X	MASK VR
			63	SE - 810353J	PANEL TOP MPC2500
			64	SP - 822289X	LENS LED
			65	SP - 822290X	PANEL SIDE (L)
			66	ZS - 822727X	PANEL SIDE (R)
			67	ZS - 417137	BT CTS30X06STL BZN
			68	ZS - 404225J	ST BID40X08STL BZN
			69	EV - 822422X	for HD
			70	EV - 822266J	BID30X04STL CMT
			71	SK - 822308X	FOOT B
			72	SK - 822311X	KNOB VOL PART (17) Red
			73	EV - 822377X	VR ROTARY RD14K12D L20 C203X2
			74	SK - 822313X	KNOB VOL PART (18) Silver
			75	EV - 822377X	VR ROTARY RD14K12D L20 3B103X2
			76	SK - 821679X	KNOB VOL PART (19) Black
			77	EV - 822423X	VR ROTARY RD14K12D L20 3B103X2
			78	EV - 822664X	SPACER SLIDE
			79	EV - 822665X	EV - 822423X
			80	EV - 822666X	AC CORD 250SSP30IS14 A J
			81	EV - 822667X	AC CORD 200SSP30IS14 A AC
			82	EV - 822576X	AC CORD 183SLP33LS60 A E
			83	EV - 822576X	AC CORD 200SSP60IS14 A B
			84	EV - 822576X	AC CORD 180SSP502BIS14 A S
			85	△ EJ - 405424J	PLUG ADAPTOR KPR-25
	△ ES - 812750J	SW PUSH SDKEC Knob			
		02-1 SW Power			

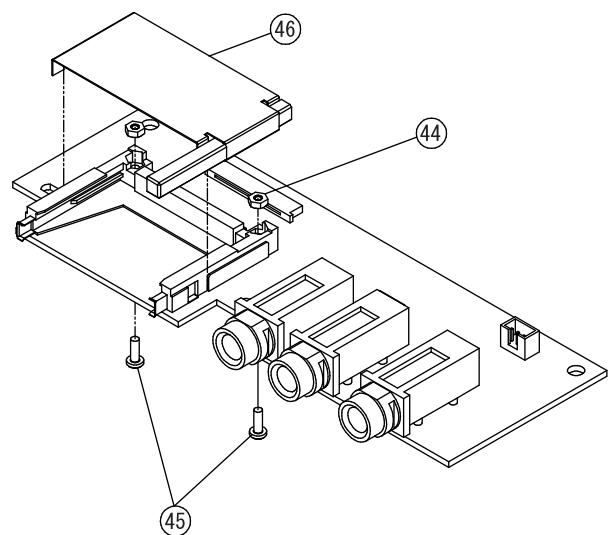
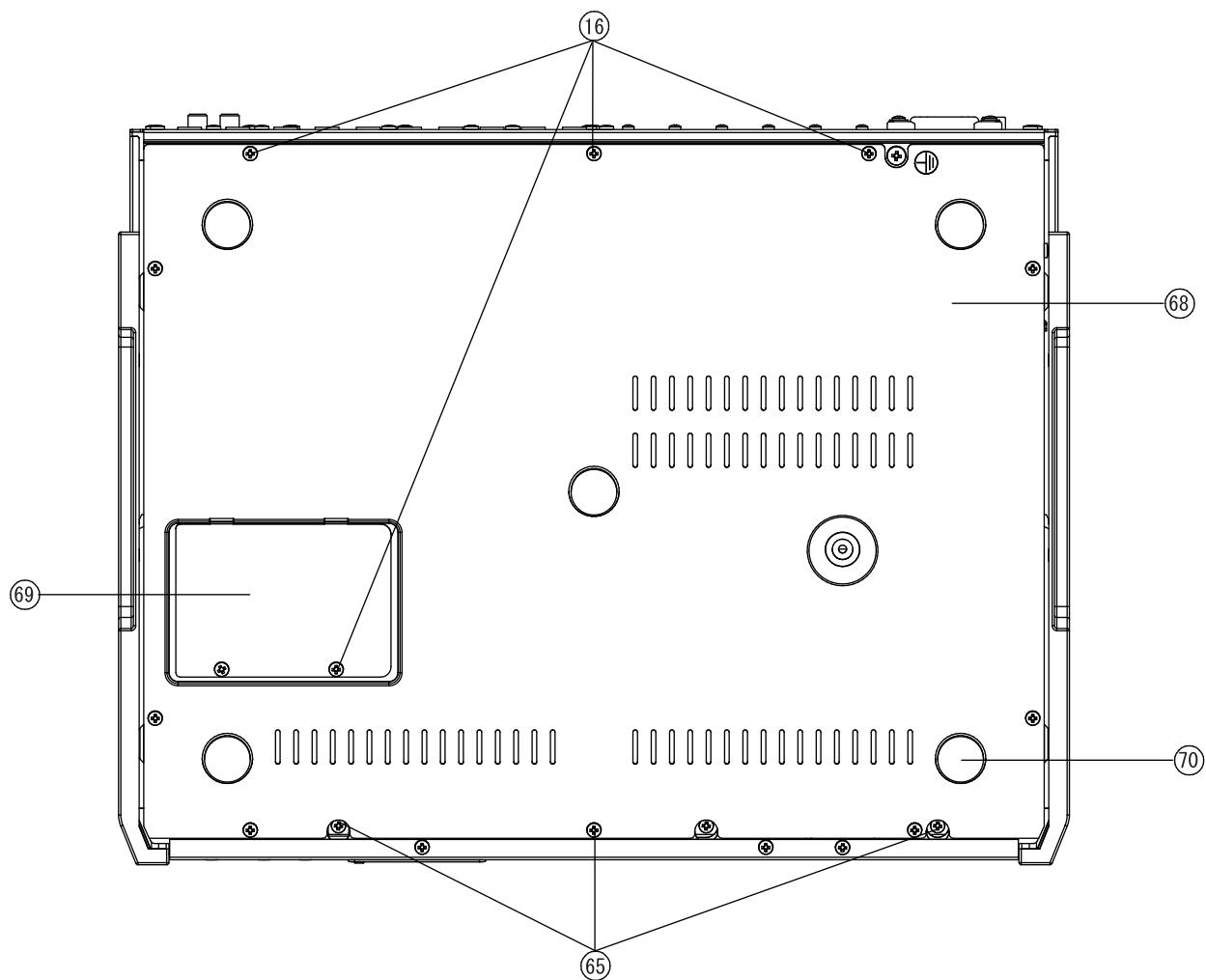
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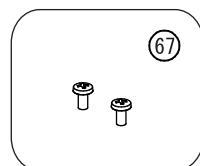
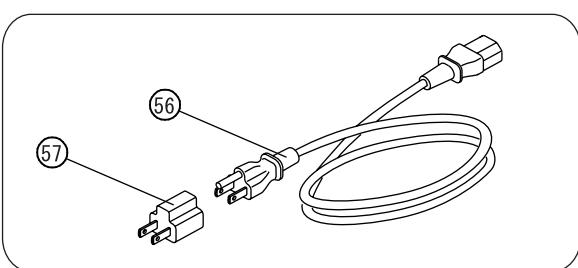
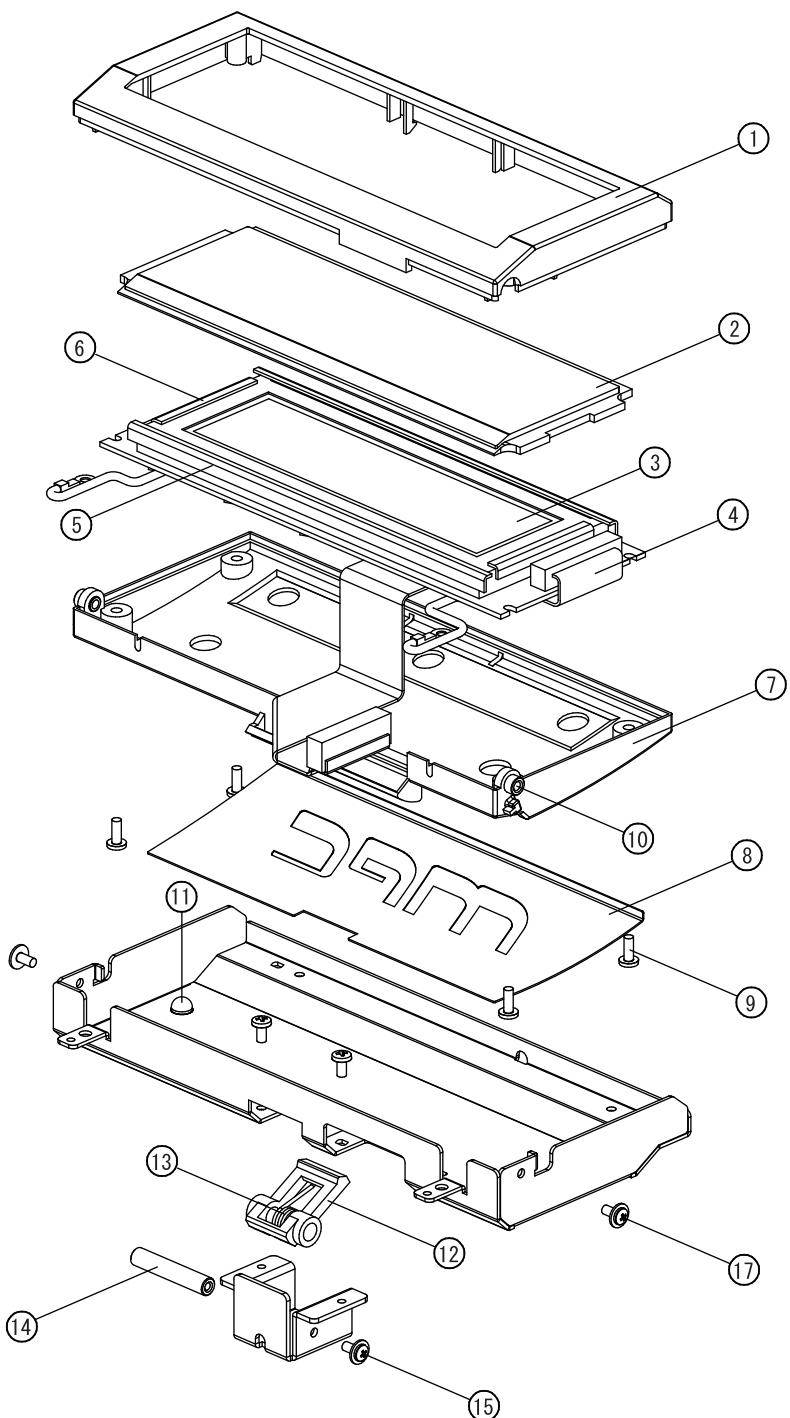
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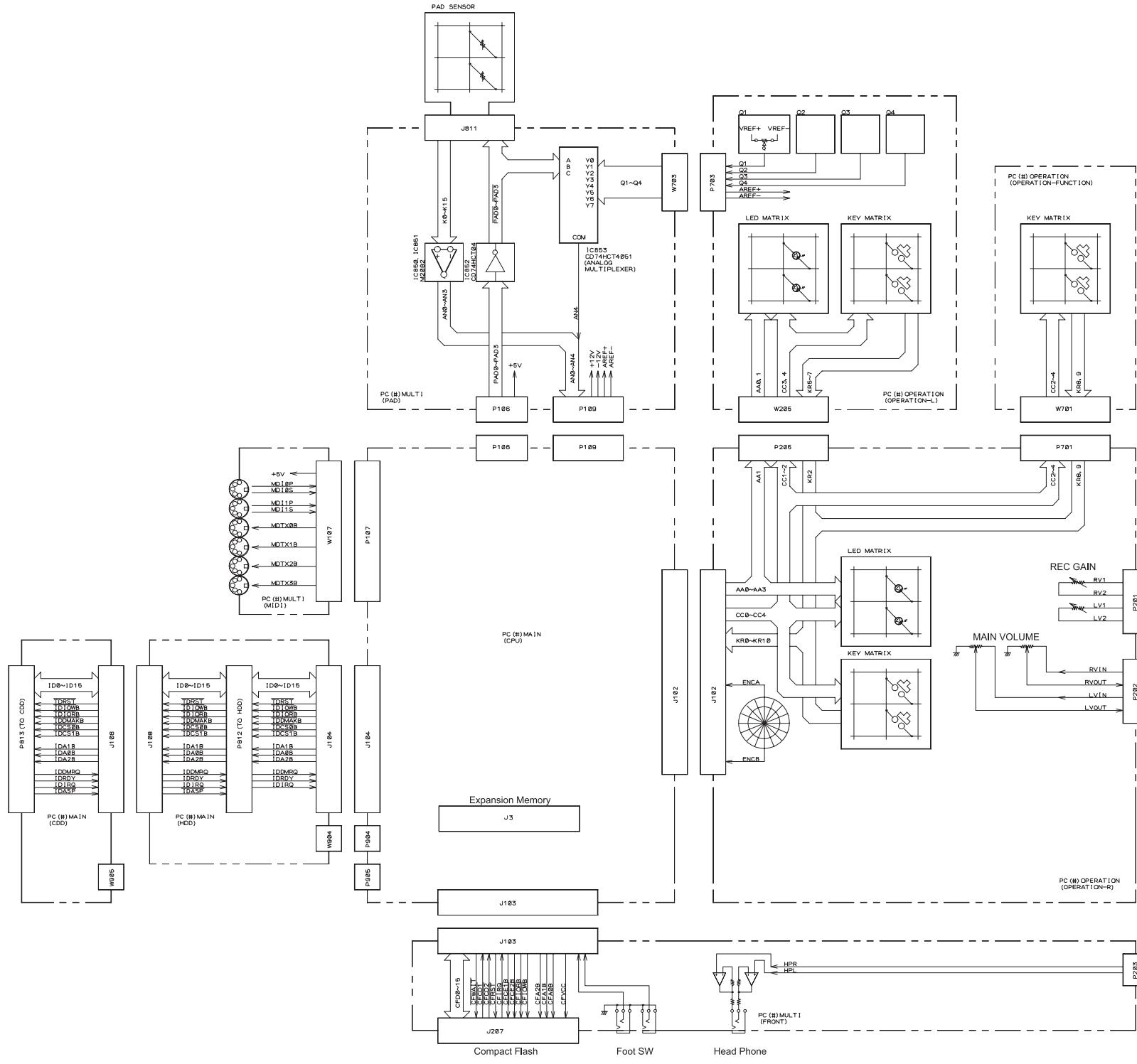


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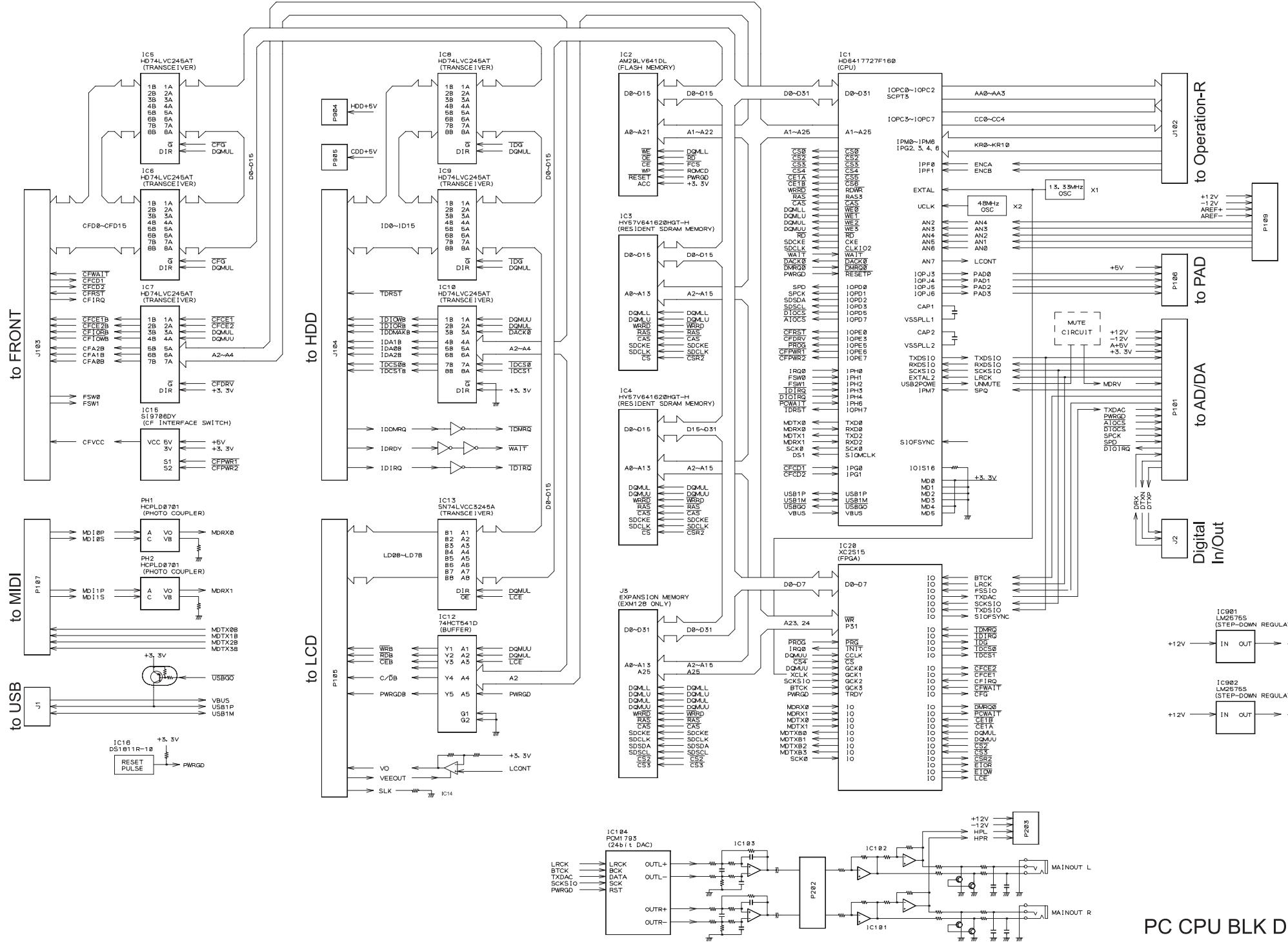


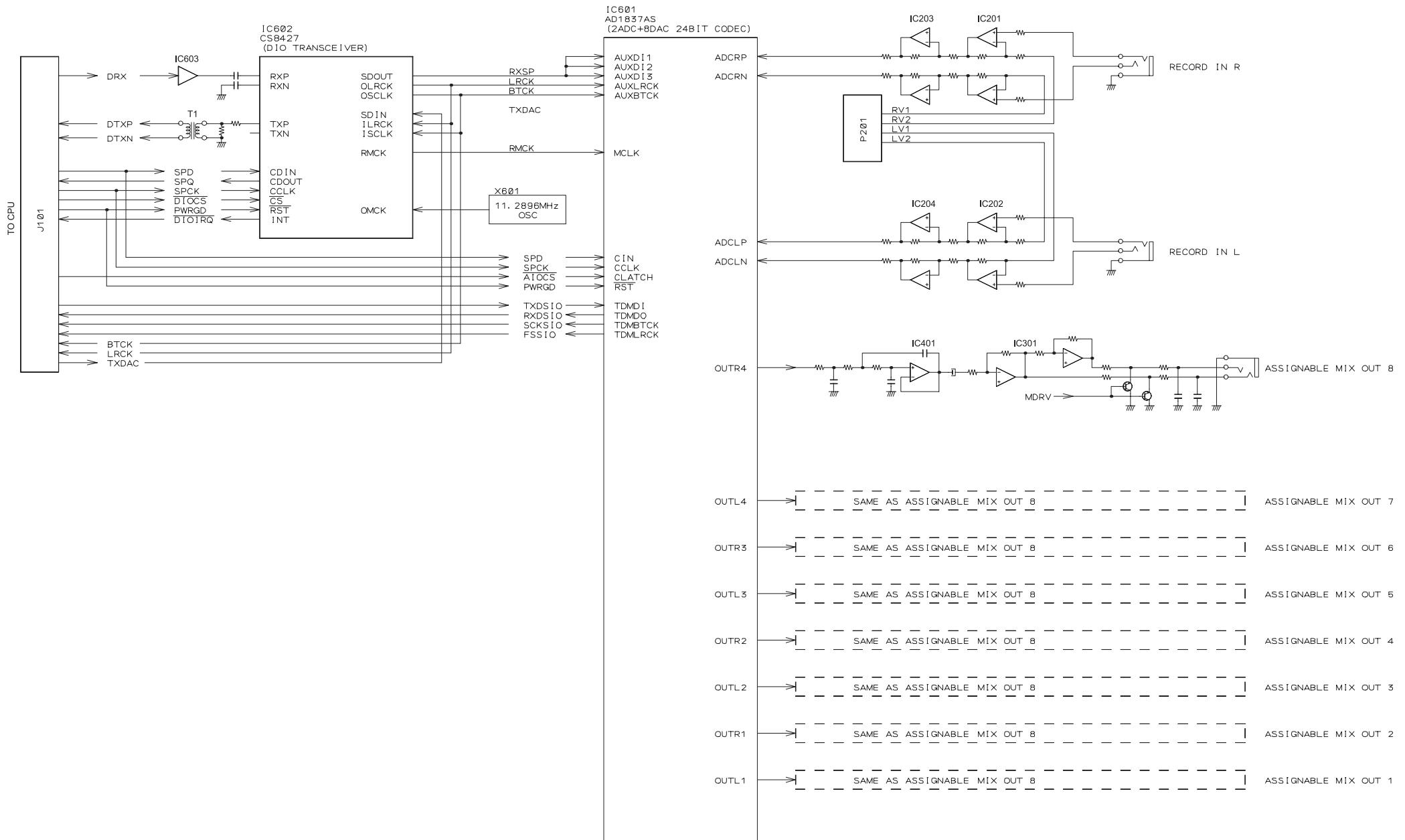
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Operation / Connection BLK Diagram





PC AD/DA BLK Diagram

